BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

BYATARAYANAPURA DIVISION

KODIGEHALLI SUB DIVISION

WARD 7: BYATARAYANAPURA

Name of work:- Improvements to roads and drains of chiranjeevi layout extension and surrounding areas in ward No.07, Byatarayanapura.

P-CODE:-

Job sheet:-

Estimate Cost:- 50.00 lakhs

Name of Work:- Improvements to roads and drains of chiranjeevi layout extension and surrounding areas in ward No.07, Byatarayanapura

Estimated Cost:- 50.00 Lakhs

S.N	DESCRIPTION OF WORK	Unit	N	L	B	D	QTY	RATE	AMOUNT
1	2	3	4	5	6	7	8	9	10
1	KSRRB 300-1. Earthwork excavation by manual means in rodinary soil involving an average horizontal throw upto 2 m and an average lift upto 1.5m, excavated surafce levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking clods complete as per specifications.. Pg No.141.Item No.19.1)								
	Basic Rate:	cum	**82.00**						
	Area Weightage @ 6%		4.92						
	Total		**86.92**						
	Desilting of drains								
	2nd main road	1x2	2	160.00	0.45	0.45	64.80		
	1st cross road	1x2	2	175.00	0.45	0.45	70.88		
	2nd cross road	1x2	2	175.00	0.45	0.45	70.88		
	3rd cross	1x2	2	60.00	0.45	0.45	24.30		
	3rd A cross	1x2	2	135.00	0.45	0.45	54.68		
	2nd main road	1x2	2	200.00	0.45	0.45	81.00		
	2nd main road Brindavana aprtment road	1x2	2	125.00	0.45	0.45	50.63		
	1 st cross	1x2	2	30.00	0.45	0.45	12.15		
	3rd main next to brindavan apartment	1x2	2	50.00	0.45	0.45	20.25		
	4th cross 3rd main road next to brindavan	1x2	2	55.00	0.45	0.45	22.28		
	Vayunandhana Layout								
	1st cross road- LHS	1x2	2	160.00	0.45	0.45	64.80		
	2nd cross road- LHS	1x2	2	170.00	0.45	0.45	68.85		
	3rd cross road-LHS	1x2	2	80.00	0.45	0.45	32.40		
	1st cross road-RHS	1x2	2	80.00	0.45	0.45	32.40		
	2nd cross road-RHS	1x2	2	80.00	0.45	0.45	32.40		
	Road work for pothole filling and road cutting								
	2nd main road		1	40.00	2.00	0.20	16.00		
	1st cross road		1	40.00	3.00	0.20	24.00		
	2nd cross road		1	45.00	2.00	0.20	18.00		
	3rd cross		1	30.00	2.00	0.20	12.00		
	3rd A cross		1	30.00	2.00	0.20	12.00		
	2nd main road		1	30.00	3.00	0.20	18.00		
	2nd main road Brindavana aprtment road		1	40.00	2.00	0.20	16.00		
	1 st cross		1	10.00	2.00	0.20	4.00		
	3rd main next to brindavan apartment		1	15.00	2.00	0.20	6.00		
	4th cross 3rd main road next to brindavan		1	10.00	2.00	0.20	4.00		
	culvert		4	6.00	1.80	0.90	38.88		
	Vayunandhana Layout								
	1st cross road- LHS		2	55.00	1.50	0.20	33.00		
	2nd cross road- LHS		2	65.00	1.50	0.20	39.00		

	3rd cross road-LHS		2	30.00	1.50	0.20	18.00		
	1st cross road-RHS		2	35.00	1.50	0.20	21.00		
	2nd cross road-RHS		2	35.00	1.50	0.20	21.00		
							1003.56	86.92	87230.00
2	Removing and refixing stone slabs of drains and pointing in CM (1:3).(Pg No.25,								
	Basic Rate:	Sqm	**76.00**						
	Area Weightage @ 6%		4.56						
	Total		**80.56**						
	BS Slab cover- in front of houses								
	2nd main road		2	75.00		0.60	90.00		
	1st cross road		2	65.00		0.60	78.00		
	2nd cross road		2	50.00		0.60	60.00		
	3rd cross		2	25.00		0.60	30.00		
	3rd A cross		2	95.00		0.60	114.00		
	2nd main road		2	100.00		0.60	120.00		
	2nd main road Brindavana aprtment road		2	45.00		0.60	54.00		
	1 st cross		2	10.00		0.60	12.00		
	3rd main next to brindavan apartment		2	25.00		0.60	30.00		
	4th cross 3rd main road next to brindavan		2	25.00		0.60	30.00		
	BS Slab drain								
	2nd main road		2	50.00		1.35	135.00		
	1st cross road		2	25.00		1.35	67.50		
	2nd cross road		2	20.00		1.35	54.00		
	3rd cross		2	20.00		1.35	54.00		
	3rd A cross		2	50.00		1.35	135.00		
	2nd main road		2	40.00		1.35	108.00		
	2nd main road Brindavana aprtment road		2	45.00		1.35	121.50		
	1 st cross		2	20.00		1.35	54.00		
	3rd main next to brindavan apartment		2	60.00		1.35	162.00		
	4th cross 3rd main road next to brindavan		2	20.00		1.35	54.00		
	Vayunandhana Layout								
	1st cross road- LHS		2	55		1.35	148.50		
	2nd cross road- LHS		2	65		1.35	175.50		
	3rd cross road-LHS		2	30		1.35	81.00		
	1st cross road-RHS		2	35		1.35	94.50		
	2nd cross road-RHS		2	35		1.35	94.50		
							2157.00		
						Consider 25% missing slabs	**539.25**		
							1617.75	80.56	130326.00
3	Providing granite slabs of selected quality roughly dressed and fixed in cementer mortar (1:6) including fixing curing etc., complete. Pg No.25, Item No.5.31.1 (7.5 cms thick)								
	Basic Rate:	Sqm	**628.00**						
	Area Weightage @ 6%		37.68						
	Total		**665.68**						
	Missing qty						539.25		

							539.25	665.68	358968.00
4	KSRB 4-1.3: Providing and laying in position plain cement concrete of nominal mix 1:4:8 using 40mm and down size graded granite metal machine mixed, conrete laid in layers not exceeding 15 cms. Thick well compacted in foundation and plinth, including cost of all materials labour, HOM of machinery, curing complete as per specification . **(Pg.No.12, It.4.3)**								
	Basic Rate:	cum	4867.00						
	Area Weightage @ 6%		292.02						
	Total		5159.02						
	culvert bottom		4	6	1.8	0.15	6.48		
							6.48	5159.02	33431.00
5	KSRB 5.3-1:Providing and constructing granite /trap/basalt size stone masonry in foundation with cement mortar 1:6, stone hammered dressed in courses not less than 20cms hign, bond stones at two m apart in each course including cost of materials, labour, curing etc., complete as per specifications.(P-23. Item No. 5.6)								
	Basic Rate:	cum	4187.00						
	Area Weightage @ 6%		251.22						
	Total		4438.22						
	Culvert side wall	4x2	8	6	0.6	0.90	25.92		
							25.92	4438.22	115039.00
6	KSRB 4-1.6: Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240 kgs with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.53cum, machine mixed concrete laid in layers not exceeding 15cms thick well compacted in foundation plinth and cills including cost of all materials, labour HOM of machinery curing complete as per specifications.(Item No.4.6, Page No.12)								
	Basic Rate:	cum	5441.00						
	Area Weightage @ 6%		326.46						
	Total		5767.46						
	culvert vent portion		4	6.0	0.60	0.10	1.44		
	coping on side walls	1x2	8	6.0	0.60	0.10	2.88		
							4.32	5767.46	24916.00
7	Providing and fixing 20 cm thick pre cast RCC covering slab using reinforced cement concrete M 20 mix with stone aggregate 20 mm and down size including centring shuttering reinforcement and bar bending machine mixed concrete laid in layers not exceeding 15 cm thick wellcompacted cost of all materials labour curing comlete as per specification (Data Rate)								
	DETA RATE	**Sqm**							
	culvert covering slab		40	1.8	0.60		43.20		
							43.20	5111.00	220796.00

8	KSSRB M 400-17: Providing laying, spreading and compacting graded fine aggregate to wet mix macadam specificationns including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surfce and compating with vibratory roller to achieve the desired density complete as per specifications. MORTH specifications no. 406(P-157., It No: 20.18)								
	Basic Rate:	cum	1668.00						
	Area Weightage @ 6%		100.08						
	Total		**1768.08**						
	Road work for pothole filling and road cutting								
	2nd main road		1.00	40.00	2.00	0.20	16.00		
	1st cross road		1.00	40.00	3.00	0.20	24.00		
	2nd cross road		1.00	45.00	2.00	0.20	18.00		
	3rd cross		1.00	30.00	2.00	0.20	12.00		
	3rd A cross		1.00	30.00	2.00	0.20	12.00		
	2nd main road		1.00	30.00	3.00	0.20	18.00		
	2nd main road-brindavan apartment		1.00	40.00	2.50	0.20	20.00		
	1 st cross		1.00	10.00	2.00	0.20	4.00		
	3rd main next to brindavan apartment		1.00	15.00	2.00	0.20	6.00		
	4th cross 3rd main road next to brindavan		1.00	10.00	2.00	0.20	4.00		
	Vayunandhana Layout								
	1st cross road- LHS		1.00	55.00	2.00	0.20	22.00		
	2nd cross road- LHS		1.00	65.00	2.00	0.20	26.00		
	3rd cross road-LHS		1.00	30.00	2.00	0.20	12.00		
	1st cross road-RHS		1.00	35.00	2.00	0.20	14.00		
	2nd cross road-RHS		1.00	35.00	2.00	0.20	14.00		
							222.00	1768.08	392514.00
9	KSRRB-500-2: Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and or/ compressed air to receive bituminous treatment including cost of all materails, labour, HOM Machineries complete as per specifications.(Page No.161, Item No.21.2)								
	Basic Rate:	Sqm	3.00						
	Area Weightage @ 6%		0.18						
	Total		3.18						
	Asphalt roads								
	2nd main road		1.00	160.00	9.00		1440.00		
	1st cross road		1.00	175.00	6.00		1050.00		
	2nd cross road		1.00	175.00	6.00		1050.00		
	3rd cross		1.00	60.00	6.00		360.00		
	3rd A cross		1.00	135.00	6.00		810.00		
	2nd main road		1.00	200.00	6.00		1200.00		
	2nd main road - brindavana apartment		1.00	125.00	5.00		625.00		
	1 st cross		1.00	30.00	4.00		120.00		
	3rd main next to brindavan apartment		1.00	50.00	4.00		200.00		

	4th cross 3rd main road next to brindavan		1.00	55.00	4.00		220.00		
	Vayunandhana Layout								
	1st cross road- LHS		1.00	160.00	4.50		720.00		
	2nd cross road- LHS		1.00	170.00	4.50		765.00		
	3rd cross road-LHS		1.00	80.00	4.50		360.00		
	1st cross road-RHS		1.00	80.00	4.00		320.00		
	2nd cross road-RHS		1.00	80.00	4.00		320.00		
							9560.00	3.18	30401.00
10	KSRRB 500-07: Providing and applying tack coat with80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials , labour HOM Machineries complete as per specifications.. (Pg No. 160. Item No. 21.7)								
	Basic Rate:	Sqm	11.00						
	Area Weightage @ 6%		0.66						
	Total		11.66						
	2nd main road		1.00	160.00	9.00		1440.00		
	1st cross road		1.00	175.00	6.00		1050.00		
	2nd cross road		1.00	175.00	6.00		1050.00		
	3rd cross		1.00	60.00	6.00		360.00		
	3rd A cross		1.00	135.00	6.00		810.00		
	2nd main road		1.00	200.00	6.00		1200.00		
	2nd main road - brindavana apartment		1.00	125.00	5.00		625.00		
	1 st cross		1.00	30.00	4.00		120.00		
	3rd main next to		1.00	50.00	4.00		200.00		
	4th cross 3rd main road next to brindavan apartment		1.00	55.00	4.00		220.00		
	Vayunandhana Layout								
	1st cross road- LHS		1.00	160.00	4.50		720.00		
	2nd cross road- LHS		1.00	170.00	4.50		765.00		
	3rd cross road-LHS		1.00	80.00	4.50		360.00		
	1st cross road-RHS		1.00	80.00	4.00		320.00		
	2nd cross road-RHS		1.00	80.00	4.00		320.00		
							9560.00	11.66	111470.00
11	Providing and laying bituminous concrete40MM thick with hotmix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filleeer, transporting of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with paver finisher to the required gradde, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to acheive the desired compaction as per MORTH specifications clause No.509 complete in all respects complete as per specifications. using 40/60 TPH capacity H.M.P with mechanical paver Gr-11(30mm to 45mm) with 5.4% of modified binder consisting of 4.97% VG-10 bitumen (80/100) grade and 0.43% of plastomeric thermoplastics(Waste plastic)(Page No.172, It No.21.78.6)								
	Basic Rate:	Sqm	**6746.00**						

	Area Weightage @ 6%		404.76						
	Total		**7150.76**						
	2nd main road		1.00	160.00	9.00	0.04	57.60		
	1st cross road		1.00	175.00	6.00	0.04	42.00		
	2nd cross road		1.00	175.00	6.00	0.04	42.00		
	3rd cross		1.00	60.00	6.00	0.04	14.40		
	3rd A cross		1.00	135.00	6.00	0.04	32.40		
	2nd main road		1.00	200.00	6.00	0.04	48.00		
	2nd main road - brindavana apartment		1.00	125.00	5.00	0.04	25.00		
	1 st cross		1.00	30.00	4.00	0.04	4.80		
	3rd main next to		1.00	50.00	4.00	0.04	8.00		
	4th cross 3rd main road next to brindavan		1.00	55.00	4.00	0.04	8.80		
	Vayunandhana Layout								
	1st cross road- LHS		1.00	160.00	4.50	0.04	28.80		
	2nd cross road- LHS		1.00	170.00	4.50	0.04	30.60		
	3rd cross road-LHS		1.00	80.00	4.50	0.04	14.40		
	1st cross road-RHS		1.00	80.00	4.00	0.04	12.80		
	2nd cross road-RHS		1.00	80.00	4.00	0.04	12.80		
							382.40	7150.76	2734451.00
12	KSRRB M80013: Providing and laying of hot applied thermoplastic compund 2.5mm thick including reflectorising glass beads at 250 gms per sqm area thickness of 2.5mm is exclusive of surface applied galss beads as per thickness of 2.5mm is exclusive of surface, applied glass beadsa s perIRC35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH specfications. No.803.(Page No.185. It No.24.15)								
	Basic Rate:	Sqm	512.00						
	Area Weightage @ 6%		30.72						
	Total		542.72						
	2nd main road		2.00	160.00	0.10		32.00		
	1st cross road		2.00	175.00	0.10		35.00		
	2nd cross road		2.00	175.00	0.10		35.00		
	3rd cross		2.00	60.00	0.10		12.00		

	3rd A cross		2.00	135.00	0.10		27.00		
	2nd main road		2.00	200.00	0.10		40.00		
	2nd main road - brindavana apartment		2.00	125.00	0.10		25.00		
	1 st cross		2.00	30.00	0.10		6.00		
	3rd main next to brindavan apartment		2.00	50.00	0.10		10.00		
	4th cross 3rd main road next to brindavan		2.00	55.00	0.10		11.00		
	Vayunandhana Layout								
	1st cross road- LHS		1.00	160.00	0.10		16.00		
	2nd cross road- LHS		1.00	170.00	0.10		17.00		
	3rd cross road-LHS		1.00	80.00	0.10		8.00		
	1st cross road-RHS		1.00	80.00	0.10		8.00		
	2nd cross road-RHS		1.00	80.00	0.10		8.00		
							290.00	542.72	157389.00
13	KSRRB M100-1 Loading and unloading of stone boulder/stone aggregates/ sand/ kanker/ moorum. KSRRB M100-1:Placing tipper at loading point loading with front end loading, dumping turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1 (Page 118, item No. 17.1)								
	Basic Rate	cum	**68.00**				1003.56	106.00	106377.00
	Rs. 2.50 Tonne Km.								
	Average Weight of earth 1.28 Tonne/Km.								
	For 10 Km								
	Rs.2.50X1.28TonneX10K		**32.00**						
	Total		**100.00**						
	Add Area Weightage6%		**6.00**						
			106.00						
14						**Sub Total**			4503308.00
15				**Add 10% Tender premium charges**					450330.80
16				**Add 1% Third party inspection charges**					45033.08
17				**Miscelleneous charges**					1328.12
						Total			5000000.00

1)This is certified that the work spot comes under BBMP limits only.

2) The work spot is inspected by me

3) The items Provided in the Estimate are quite Essential

4)The rates are as per CSR of 2016-17 year of PWD Bangalore Circle.

Ward no.7

Kodigehalli Sub-division
B.B.M.P.

Byatrayanapura Division
B.B.M.P.

ADMINISTRATIVE APPROVAL

Accorded For Rs. Fifty Thousand only

Head of A/C. P-3111

Div. Ref. No. 107/12-18 Date. 19/12/17

AE

EE(BTP)

Technical Sanction
Accorded For Rs. Fifty lakhs only
Head of A/C. P-3111
CER NO TS/475/17-18 Dt: 29.12.17

TA — CE (YNK)

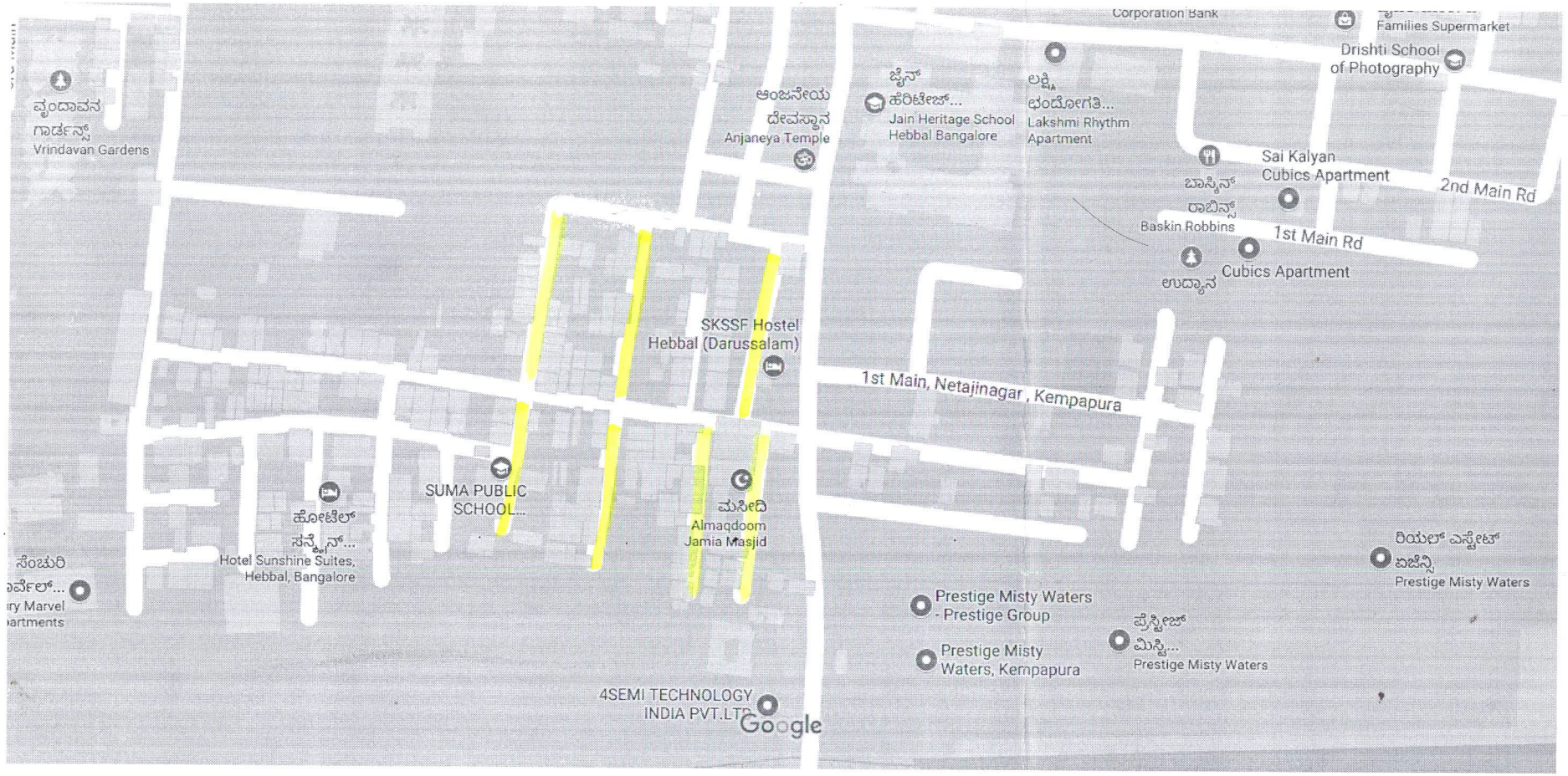
Name of work:- Improvements to roads and drains of chiranjeevi layout extension and surrounding areas in ward No.07.

AE(NE)

1 of 1 11/10/2017, 1:09 PM

Name of work:-

Google



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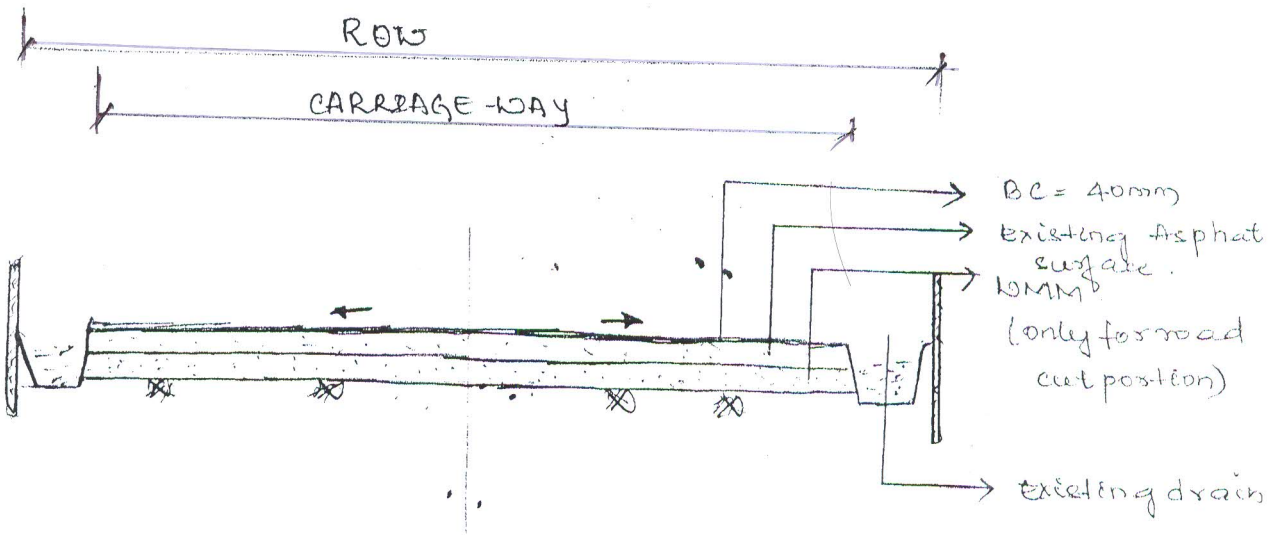
AE(W4)

Name of work:- Improvements to roads and drains of chirangeen layout extension and surrounding areas in ward no. 07.

Byatarayanapura:



CROSS-SECTION

[signature] N.D
AE(W7)

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BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

BYATARAYANAPURA DIVISION

KODIGEHALLI SUB DIVISION

WARD 7: BYATARAYANAPURA

Name of work:- Improvements to roads and drains of Mariyannapalya and surrounding areas in ward No.07, Byatarayanapura .

P-CODE:-

Job sheet:-

Estimate Cost:- 60.00 lakhs

Name of Work:- Improvements to roads and drains of Mariyannapalya and surrounding areas in ward No.07, Byatarayanapura **Estimate**

Cost:- 60.00 Lakhs

S.N	DESCRIPTION OF WORK	Unit	N	L	B	D	QTY	RATE	AMOUNT
1	2	3	4	5	6	7	8	9	10
1	Removing and refixing stone slabs of drains and pointing in CM (1:3).(Pg No.25, I.No.5.33)								
	Basic Rate:	Sqm	**76.00**						
	Area Weightage @ 6%		4.56						
	Total		**80.56**						
	BS Slab drain		1	225.00		1.35	303.75		
							303.75		
						Consider 20% missing slabs	**60.75**		
							243.00	80.56	19576.08
2	KSRRB 300-1. Earthwork excavation by manual means in rodinary soil involving an average horizontal throw upto 2 m and an average lift upto 1.5m, excavated surafce levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking clods complete as per specifications.. Pg No.142.Item No.19.1)								
	Basic Rate:	cum	**82.00**						
	Area Weightage @ 6%		4.92						
	Total		**86.92**						
	culvert		2	5.00	1.80	1.00	18.00		
	CC ROAD								
	1st cross mother teresa road		1	40.00	2.00	0.20	16.00		
	Janatha colony- From Jain heritage school to Burial ground		1	80.00	4.50	0.30	108.00		
	RCC DRAIN								
	ROAD NEXT TO BURIAL GROUND		1	45.00	0.90	1.05	42.53		
	Mother theresa burial ground road		1	142.00	0.75	1.20	127.80		
	DRAIN DESILTING								
	ROAD NEXT TO BURIAL GROUND		1	225.00	0.60	0.60	81.00		
	8TH CROSS		1	75.00	0.45	0.45	15.19		
	6HT CROSS		1	75.00	0.45	0.45	15.19		
	7TH CROSS		1	225.00	0.45	0.45	45.56		
	9TH CROSS		1	55.00	0.45	0.45	11.14		
	5TH CROSS		1	140.00	0.45	0.45	28.35		
	ASPHALT ROADS								
	ROAD NEXT TO BURIAL GROUND		1	55	2.00	0.20	22.00		
	1st cross mother teresa road		1	35	1.50	0.20	10.50		
	1st cross road		1	25	2.00	0.20	10.00		
	8TH CROSS		1	30	3.00	0.20	18.00		
	6HT CROSS		1	25	1.50	0.20	7.50		
	7TH CROSS		1	20	2.00	0.20	8.00		
	7th A cross		1	25	3.00	0.20	15.00		

	9TH CROSS		1	25	2.50	0.20	12.50		
	5TH CROSS		1	20	2.50	0.20	10.00		
	1st cross		1	25	1.50	0.20	7.50		
							629.75	86.92	**54738.00**
3	Providing granite slabs of selected quality roughly dressed and fixed in cementer mortar (1:6) including fixing curing etc., complete. Pg No.25, Item No.5.31.1 (7.5 cms thick)								
	Basic rate	Sqm	628.00						
	Area Weightage @ 6%		37.68						
	Total		665.68						
							60.75		
					Total:-		**60.75**	665.68	**40441.00**
4	KSRB 4-1.3: Providing and laying in position plain cement concrete of nominal mix 1:4:8 using 40mm and down size graded granite metal machine mixed, conrete laid in layers not exceeding 15 cms. Thick well compacted in foundation and plinth, including cost of all materials labour, HOM of machinery, curing complete as per specification . **(Pg.No.12, It.4.3)**								
	Basic Rate:	cum	4867.00						
	Area Weightage @ 6%		292.02						
	Total		5159.02						
	culvert		2	5	1.8	0.15	2.70		
	CC ROAD								
	1st cross mother teresa road		1	40	2	0.15	12.00		
	Janatha colony- From Jain heritage school to Burial ground		1	80	5	0.15	54.00		
	RCC DRAIN								
	ROAD NEXT TO BURIAL GROUND		1	45	0.90	0.15	6.08		
	From dasarahalli main road to St Antony churuch road		1	142	0.75	0.15	15.98		
							90.75	5159.02	**468182.00**
5	KSRB 4.2.2: Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 Kgs with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplastizers @ 3lts confirming to IS 9103-1999 RE affirmed - 2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, stair case lintels, retaining walls return walls, walls(anythickness) including attached plasters columns piers abutments pillars posts struts butresses string or lacing courses parapets copings, bed blocks , plain windows cills fillets etc., including cost of all materials labour HOM of machinery curing complete as per specifications. Seocifications No. KBS 4.1,4.6 (Page NO. 13, Item NO. 4.11)								
	Basic Rate:	cum	6011.00						
	Area Weightage @ 6%		360.66						
	Total		6371.66						
	RCC DRAIN								
	Bottom		1	45	0.90	0.15	6.08		
			1	142	0.75	0.15	15.98		

	Side wall	1x2	2	45	0.15	0.75	10.13		
			2	142	0.15	0.90	38.34		
							32.18	6371.66	**205009.00**
6	Providing TMT Steel Reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.(Page No.17, Item No.17)								
	Basic Rate:	tonne	60607.00						
	Area Weightage @ 6%		3636.42						
	Total		64243.42						
						Reinforcement for rcc drain		32.18	
			At 55 Kg % per cum					**17.70**	64243.42	**1136868.00**
7	Providing and removing Centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square / rectangular slabs /side walls polygon in plan including cost of materials, labour complete as per specification and directions of the Engineer in charge.(Page No.16, Item NO.4.32)								
	Basic Rate:	Sqm	366.00						
	Area Weightage @ 6%		21.96						
	Total		387.96						
	For drain side wall	1*4	4.00	45.00		0.75	135.00		
		1*4	4.00	142.00		0.90	511.20		
							646.20	387.96	**250700.00**
8	Providing and fixing 10cms thick pre cast RCC covering slab using reinforced cement concrete M20 mix with stone aggregate 20mm and down size including centring shuttering reinforcement and bar bending machine mixed concrette laid in layers not exceeding 15 cm thick wellcompacted cost of all materials labour curing complete as per specfications (Data Rate Approved)								
	DETA RATE	**Sqm**							
	Drain covering		**1**	**45.00**	0.90		40.50		
			1	**130.00**	0.90		117.00		
							157.50	1836.00	**289170.00**
9	KSRB4-1.6: Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240 kgs, with 20 mm and down size graded granite matel coarse aggregates @ 0.69 cum and fine aggragtes @ 0.459cum, machine mixed concrete laid in layers not eceeding 15 cms, thick well compacted, in foundation, plinth and cills including cost of all materials, labour HOM machinery curing complate as per specifications. (Page No. 12. Item No. 4.6)								
	Basic rate	Sqm	5441.00						
	Area Weightage @ 6%		326.46						
	Total		5767.46						
	Culvert vent portion		2.00	5.00	0.60	0.10	0.60		
	Coping	2x2	4.00	5.00	0.45	0.10	0.90		

					Total:-		**1.50**	5767.46	**8652.00**
10	KSRB 5.3-1:Providing and constructing granite /trap/basalt size stone masonry in foundation with cement mortar 1:6, stone hammered dressed in courses not less than 20cms hign, bond stones at two m apart in each course including cost of materials, labour, curing etc., complete as per specifications.(P-235. Item No. 5.3)								
	Basic rate	cum	4187.00						
	Add A.W. 6%		251.22						
	Total		4438.22						
	Culvert Side wall	2x2	4.00	5.00	0.45	0.90	8.10		
					Total:-		**8.10**	4438.22	**35950.00**
11	KSRB 5.3-1:Providing ruled pointing of course stone msonry with cement mortar 1:3 20 mm deep, after raking joints to depth of 20 mm nicley lining, including cost of materials, labour, curing etc., complete as per specifications and directions of the engineer-in-charge. (P-112, Item No. 15.8)								
	Basic rate	cum	35.00						
	Add A.W. 6%		2.10						
	Total		37.10						
	Culvert Side wall	1x2	2.00	5.00		0.90	9.00		
	L Shape BS Slab drain	1x2	2.00	5.00		0.45	4.50		
					Total:-		**13.50**	37.10	**501.00**
12	Providing and fixing 20 cm thick pre cast RCC covering slab using reinforced cement concrete M 20 mix with stone aggregate 20 mm and down size including centring shuttering reinforcement and bar bending machine mixed concrete laid in layers not exceeding 15 cm thick wellcompacted cost of all materials labour curing comlete as per specification (Data Rate)								
	DETA RATE	**Sqm**							
	Culvert covering		**19**	**1.8**	0.60		20.52		
							20.52	5111.00	**104878.00**
13	Providing and fixing MS Grating 260x260 mm(Page No.VIII, Sl No.237, code No.0771)								
	Basic Rate:	Sqm	89.00						
	Area Weightage @ 6%		5.34						
	Total		94.34						
	For shoulder drains		14.0				**14.00**		
							14.00	94.34	1320.76

14	Cement concrete pavement. Construction of un-reinfirced plain cement concrete pavement, thickness as per deisgn, over a prepraed sub base with OPC cement or any other type as per clause 1051..2.2 with 25mm and down size graded granite metal coarse aggregates and fine aggregates ,with superplastiser @ 3lts confirming to IS9103-1999 REAFFIRMED-2008, Mixed in a concrete mixer of not less than 0.6 cum capacity and approximate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates inlcuding levelling the form work as per drawing) and spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continous operation including, provision of contraction, expansion, construction operation including longitudinal joints, including groove cutting charges joint filler, sparation menebrane, sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specfication.M20 (AT 300 Kg per cum coarse aggregats @ 0.69cum and fine aggregate @0.43cum) (Pg No.177, It No.22.6.2)								
	Basic Rate:	cum	5197.00						
	Area Weightage @ 6%		311.82						
	Total		5508.82						
	CC ROAD								
	1st cross mother teresa road		1	40	2	0.10	8.00		
			1	80	4.5	0.10	36.00		
							44.00	5508.82	**242389.00**
15	Vaccum De-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cst of generator, HOM of machinery screed vibaratory, power floater, blade and disc etc., with all leads and lift. **(P177, It No. 22.7)**								
	Basic rate	Sqm	**90.00**						
	Area Weightage @ 6%		5.40						
	Total		**95.40**						
	CC ROAD								
	Near Maramma temple (Near Kanasu House)		1.00	40.00	2.00		80.00		
	Janatha colony- From Jain heritage school to Burial ground		1.00	80.00	4.50		360.00		
					Total:-		**440.00**	95.40	**41976.00**
16	KSSRB M 400-17: Providing laying, spreading and compacting graded fine aggregate to wet mix macadam specificationns including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surfce and compating with vibratory roller to achieve the desired density complete as per specifications. MORTH specifications no. 406(P-157., It No: 20.18)								
	Basic rate	cum	**1668.00**						
	Area Weightage @ 6%		100.08						
	Total		**1768.08**						

	Only for road cut and pothole filling								
	ROAD NEXT TO BURIAL GROUND		1	55.00	2.00	0.20	22.00		
	1st cross mother teresa road		1	35.00	1.50	0.20	10.50		
	1st cross road		1	25.00	2.00	0.20	10.00		
	8TH CROSS		1	30.00	3.00	0.20	18.00		
	6HT CROSS		1	25.00	1.50	0.20	7.50		
	7TH CROSS		1	20.00	2.00	0.20	8.00		
	7th A cross		1	25.00	3.00	0.20	15.00		
	9TH CROSS		1	25.00	2.50	0.20	12.50		
	5TH CROSS		1	20.00	2.50	0.20	10.00		
	1st cross		1	25.00	1.50	0.20	7.50		
					Total:-		**121.00**	1768.08	**213938.00**
17	KSRRB-500-2: Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and or/ compressed air to receive bituminous treatment including cost of all materails, labour, HOM Machineries complete as per specifications.(Page No.161, Item No.21.2)								
	Basic rate	cum	**3.00**						
	Area Weightage @ 6%		0.18						
	Total		**3.18**						
	ROAD NEXT TO BURIAL GROUND		1	55	4		220.00		
	1st cross mother teresa road		1	35	4		140.00		
	1st cross road		1	25	4		100.00		
	8TH CROSS		1	30	5		150.00		
	6HT CROSS		1	25	4		100.00		
	7TH CROSS		1	20	4		80.00		
	7th A cross		1	25	3		75.00		
	9TH CROSS		1	25	4		100.00		
	5TH CROSS		1	20	5		100.00		
	1st cross		1	25	3		75.00		
					Total:-		**1140.00**	3.18	**3626.00**
18	KSRRB 500-07: Providing and applying tack coat with80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials , labour HOM Machineries complete as per specifications.. (Pg No. 160. Item No. 21.7)								
	Basic rate	Sqm	**11.00**						
	Area Weightage @ 6%		0.66						
	Total		**11.66**						
	ASPHALT ROAD								
	ROAD NEXT TO BURIAL GROUND		1	225.00	4		900.00		
	1st cross mother teresa road		1	75.00	4		300.00		
	1st cross road		1	35.00	4		140.00		

	8TH CROSS		1	75.00	5		375.00		
	6HT CROSS		1	75.00	4		300.00		
	7TH CROSS		1	225.00	4		900.00		
	7th A cross		1	30.00	3		90.00		
	9TH CROSS		1	60.00	4		240.00		
	5TH CROSS		1	140.00	5		700.00		
	1st cross		1	41.00	3		123.00		
					Total:-		**4068.00**	11.66	**47433.00**
19	Providing and laying bituminous concrete40MM thick with hotmix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filleeer, transporting of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with paver finisher to the required gradde, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to acheive the desired compaction as per MORTH specifications clause No.509 complete in all respects complete as per specifications. using 40/60 TPH capacity H.M.P with mechanical paver Gr-11(30mm to 45mm) with 5.4% of modified binder consisting of 4.97% VG-10 bitumen (80/100) grade and 0.43% of plastomeric thermoplastics(Waste plastic)(Page No.172, It No.21.78.6)								
	Basic rate	Sqm	**6746.00**						
	Area Weightage @ 6%		404.76						
	Total		**7150.76**						
	ASPHALT ROAD								
	ROAD NEXT TO BURIAL GROUND		1	225.0	4.0	0.04	36.00		
	1st cross mother teresa road		1	75.0	4.0	0.04	12.00		
	1st cross road		1	35.0	4.0	0.04	5.60		
	8TH CROSS		1	75.0	5.0	0.04	15.00		
	6HT CROSS		1	75.0	4.0	0.04	12.00		
	7TH CROSS		1	225.0	4.0	0.04	36.00		
	7th A cross		1	30.0	3.0	0.04	3.60		
	9TH CROSS		1	60.0	4.0	0.04	9.60		
	5TH CROSS		1	140.0	5.0	0.04	28.00		
	1st cross		1	41.0	3.0	0.04	4.92		
					Total:-		**162.72**	7150.76	**1163572.00**
20	KSRRB M80013: Providing and laying of hot applied thermoplastic compund 2.5mm thick including reflectorising glass beads at 250 gms per sqm area thickness of 2.5mm is exclusive of surface applied galss beads as per thickness of 2.5mm is exclusive of surface, applied glass beadsa s perIRC35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH specfications. No.803.(Page No.185. It No.24.15)								
	Basic rate	Sqm	**512.00**						
	Area Weightage @ 6%		30.72						
	Total		**542.72**						
	ASPHALT ROAD								
	ROAD NEXT TO BURIAL GROUND		2	225	0.10		45.00		
	1st cross mother teresa road		2	75	0.10		15.00		

	1st cross road		2	35	0.10		7.00		
	8TH CROSS		2	75	0.10		15.00		
	6HT CROSS		2	75	0.10		15.00		
	7TH CROSS		2	225	0.10		45.00		
	7th A cross		2	30	0.10		6.00		
	9TH CROSS		2	60	0.10		12.00		
	5TH CROSS		2	140	0.10		28.00		
	1st cross		2	41	0.10		8.20		
					Total:-		**196.20**	542.72	**106482.00**
21	KSRRB M100-1 Loading and unloading of stone boulder/stone aggregates/ sand/ kanker/ moorum. KSRRB M100-1:Placing tipper at loading point loading with front end loading, dumping turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1 (Page 118, item No. 17.1)								
	Basic Rate	cum	**68.00**				629.75	106.00	**66754.00**
	Rs. 2.50 Tonne Km.								
	Average Weight of earth 1.28 Tonne/Km.								
	For 10 Km								
	Rs.2.50X1.28TonneX10K		**32.00**						
	Total		**100.00**						
	Add Area Weightage6%		**6.00**						
			106.00						
22						**Sub Total**			**4502155.84**
23				**Add 10% Tender premium charges**					**450215.58**
24				**Add 1% Third party inspection charges**					**45021.56**
25				**Miscellenous charges**					**2607.02**
26						**Total**			**5000000.00**

1)This is certified that the work spot comes under BBMP limits only.

2) The work spot is inspected by me

3) The items Provided in the Estimate are quite Essential

4)The rates are as per CSR of 2016-17 year of PWD Bangalore Circle.

Asst.Engineer
Ward no.7

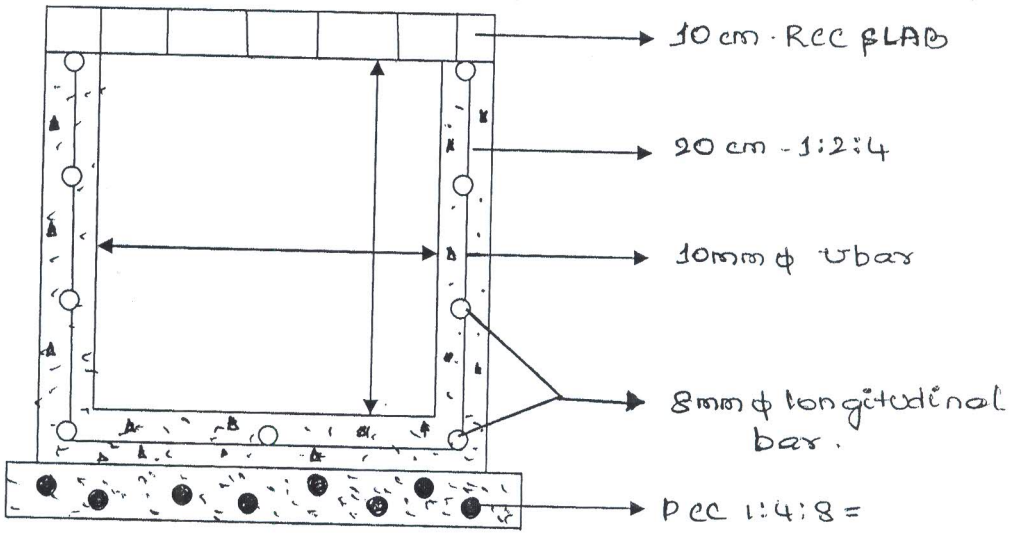
Asst.Exe.Engineer
Kodigehalli Sub-division
B.B.M.P.

Executive Engineer
Byatrayanapura Division
B.B.M.P.
19/12

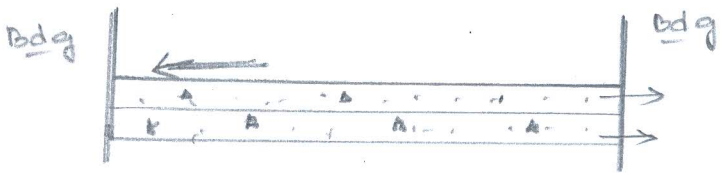
ADMINISTRATIVE APPROVAL
Accorded For Rs. Fifty lakhs only
Head of A/C. P-3111
Dev. Ref. No. 108 Date 19/12/17
AE 19/12
EE(BTP) 19/12

Technical Sanction
Accorded For Rs 50 w lacks only
Head of A/C. P-3111
CER NO : 476/17-18 Dt 22.12.17
TA CE (SNK)

Name of work: Improvements to roads and drains of Marigannapalya and surrounding areas in ward no.07, byatarayanapura.



CROSS SECTION OF RCC DRAIN



Assistant Engineer
WardNo.07

Assistant Executive Engineer
Kodigehalli Sub Divsion

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

BYATARAYANAPURA DIVISION

KODIGEHALLI SUB DIVISION

WARD 7: BYATARAYANAPURA

Name of work:- Improvements to roads and drains of gopalappa Layout and chinnappa layout in ward no.07, Byatarayanapura

P-CODE:-

Job sheet:-

Estimate Cost:- 50.00 lakhs

Name of Work:- Improvements to roads and drains of Gopalappa Layout and chinnappa Layout in ward No.07, Byatarayanapura

Estimate Cost:- 50.00 Lakhs

S.N	DESCRIPTION OF WORK	Unit	N	L	B	D	QTY	RATE	AMOUNT
1	2	3	4	5	6	7	8	9	10
1	KSRRB 300-1. Earthwork excavation by manual means in rodinary soil involving an average horizontal throw upto 2 m and an average lift upto 1.5m, excavated surafce levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking clods complete as per specifications.. Pg No.141.Item No.19.1)								
	Basic Rate:	cum	**82.00**						
	Area Weightage @ 6%		4.92						
	Total		**86.92**						
	Desilting of drains								
	Venkategowda layout								
	1st main road -1st A cross	1x2	2	51.00	0.45	0.45	20.66		
	1st B cross	1x2	2	55.00	0.45	0.45	22.28		
	1st C cross	1x2	2	50.00	0.45	0.45	20.25		
	1st D cross	1x2	2	45.00	0.45	0.45	18.23		
	2nd main 5th cross	1x2	2	70.00	0.45	0.45	28.35		
	2nd main 4th cross	1x2	2	70.00	0.45	0.45	28.35		
	Gopalappa Layout								
	12th A cross	1x2	2	70.00	0.45	0.45	28.35		
	1st coss	1x2	2	75.00	0.45	0.45	30.38		
	2nd cross	1x2	2	75.00	0.45	0.45	30.38		
	Chinnappa Layout								
	13th A cross	1x2	2	65.00	0.45	0.45	26.33		
	13th cross	1x2	2	65.00	0.45	0.45	26.33		
	cross roads	1x2	2	200.00	0.60	0.60	144.00		
	Pampa Extension								
	5th main	1x2	2	235.00	0.45	0.45	95.18		
	4th main	1x2	2	235.00	0.45	0.45	95.18		
	9th cross	1x2	2	90.00	0.45	0.45	36.45		
	8th cross	1x2	2	120.00	0.45	0.45	48.60		
	Road work for pothole filling and road cutting								
	Venkategowda layout								
	1st A cross		1	40.00	3.00	0.20	24.00		
	1st B cross		1	35.00	2.00	0.20	14.00		
	1st C cross		1	30.00	2.00	0.20	12.00		
	1st D cross		1	30.00	2.00	0.20	12.00		
	2nd main 5th cross		1	50.00	1.50	0.20	15.00		
	2nd main 4th cross		1	50.00	2.00	0.20	20.00		
	Gopalappa Layout						0.00		
	12th A cross		1	45.00	3.00	0.20	27.00		
	1st coss		1	50.00	2.00	0.20	20.00		
	2nd cross		1	50.00	2.00	0.20	20.00		

	Chinnappa Layout						0.00		
	13th A cross		1	30.00	2.00	0.20	12.00		
	13th cross		1	35.00	2.50	0.20	17.50		
	culvert		9	5.00	1.80	0.90	72.90		
	cross roads		1	55.00	2.50	0.20	27.50		
	Pampa Extension								
	5th main		1	80.00	2.00	0.20	32.00		
	4th main		1	75.00	2.00	0.20	30.00		
	9th cross		1	80.00	2.00	0.20	32.00		
	8th cross		1	75.00	2.00	0.20	30.00		
							1117.16	86.92	97104.00
2	Removing and refixing stone slabs of drains and pointing in CM (1:3).(Pg No.25, I.No.5.33)								
	Basic Rate:	Sqm	**76.00**						
	Area Weightage @ 6%		4.56						
	Total		**80.56**						
	BS Slab cover- in front of houses								
	Venkategowda layout								
	1st A cross		2	51.00		0.60	61.20		
	1st B cross		2	55.00		0.60	66.00		
	1st C cross		2	50.00		0.60	60.00		
	1st D cross		2	45.00		0.60	54.00		
	2nd main 5th cross		2	70.00		0.60	84.00		
	2nd main 4th cross		2	70.00		0.60	84.00		
	Gopalappa Layout								
	12th A cross		2	20.00		0.60	24.00		
	1st coss		2	15.00		0.60	18.00		
	2nd cross		2	25.00		0.60	30.00		
	Chinnappa Layout								
	13th A cross		2	25.00		0.60	30.00		
	13th cross		2	20.00		0.60	24.00		
	cross roads		2	50.00		0.60	60.00		
	Pampa Extension								
	5th main		2	90.00		0.60	108.00		
	4th main		2	75.00		0.60	90.00		
	9th cross		2	75.00		0.60	90.00		
	8th cross		2	75.00		0.60	90.00		
	BS Slab drain								
	Venkategowda layout								
	1st A cross		2	35.00		1.35	94.50		
	1st B cross		2	30.00		1.35	81.00		
	1st C cross		2	25.00		1.35	67.50		
	1st D cross		2	20.00		1.35	54.00		
	2nd main 5th cross		2	25.00		1.35	67.50		
	2nd main 4th cross		2	20.00		1.35	54.00		
	Gopalappa Layout								
	12th A cross		2	30.00		1.35	81.00		

	1st coss		2	40.00		1.35	108.00		
	2nd cross		2	30.00		1.35	81.00		
	Chinnappa Layout								
	13th A cross		2	30.00		1.35	81.00		
	13th cross		2	40.00		1.35	108.00		
	cross roads		2	65.00		1.80	234.00		
	Pampa Extension								
	5th main		2	80.00		1.35	216.00		
	4th main		2	90.00		1.35	243.00		
	9th cross		2	95.00		1.35	256.50		
	8th cross		2	45.00		1.35	121.50		
							2921.70		
	Consider 30% missing slabs						**876.51**		
							2045.19	80.56	164761.00
2	Providing granite slabs of selected quality roughly dressed and fixed in cementer mortar (1:6) including fixing curing etc., complete. Pg No.25, Item No.5.31.1 (7.5 cms thick)								
	Basic Rate:	Sqm	**628.00**						
	Area Weightage @ 6%		37.68						
	Total		**665.68**						
	Missing qty						876.51		
							876.51	665.68	583476.00
3	KSRB 4-1.3: Providing and laying in position plain cement concrete of nominal mix 1:4:8 using 40mm and down size graded granite metal machine mixed, conrete laid in layers not exceeding 15 cms. Thick well compacted in foundation and plinth, including cost of all materials labour, HOM of machinery, curing complete as per specification . **(Pg.No.12, It.4.3)**								
	Basic Rate:	cum	4867.00						
	Area Weightage @ 6%		292.02						
	Total		5159.02						
	culvert bottom		9	5	1.8	0.15	12.15		
							12.15	5159.02	62683.00
4	KSRB 4-1.6: Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240 kgs with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.53cum, machine mixed concrete laid in layers not exceeding 15cms thick well compacted in foundation plinth and cills including cost of all materials, labour HOM of machinery curing complete as per specifications.(Item No.4.6, Page No.12)								
	Basic Rate:	cum	5441.00						
	Area Weightage @ 6%		326.46						
	Total		5767.46						
	culvert vent portion		9	5.0	0.60	0.10	2.70		
	coping on side walls	9x2	18	6.0	0.60	0.10	6.48		
							9.18	5767.46	52946.00
5	KSRB 5.3-1:Providing and constructing granite /trap/basalt size stone masonry in foundation with cement mortar 1:6, stone hammered dressed in courses not less than 20cms hign, bond stones at two m apart in each course including cost of materials, labour, curing etc., complete as per specifications.(P-23. Item No. 5.6)								

	Basic Rate:	cum	4187.00						
	Area Weightage @ 6%		251.22						
	Total		4438.22						
	Culvert side wall	9x2	18	5	0.5	0.90	36.45		
							36.45	4438.22	161774.00
5	KSRB 5.3-1:Providing ruled pointing of course stone msonry with cement mortar 1:3 20 mm deep, after raking joints to depth of 20 mm nicley lining, including cost of materials, labour, curing etc., complete as per specifications and directions of the engineer-in-charge. (P-112, Item No. 15.8)								
	Basic Rate:	Sqm	35.00						
	Area Weightage @ 6%		2.10						
	Total		37.10						
	Culvert side wall	9x2	18	5		0.90	81.00		
							81.00	37.10	3006.00
5	Providing and fixing 20 cm thick pre cast RCC covering slab using reinforced cement concrete M 20 mix with stone aggregate 20 mm and down size including centring shuttering reinforcement and bar bending machine mixed concrete laid in layers not exceeding 15 cm thick wellcompacted cost of all materials labour curing comlete as per specification (Data Rate)								
	DETA RATE	**Sqm**							
	culvert covering slab		74	1.8	0.60		79.92		
							79.92	5111.00	408472.00
6	KSSRB M 400-17: Providing laying, spreading and compacting graded fine aggregate to wet mix macadam specificationns including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surfce and compating with vibratory roller to achieve the desired density complete as per specifications. MORTH specifications no. 406(P-157., It No: 20.18)								
	Basic Rate:	cum	1668.00						
	Area Weightage @ 6%		100.08						
	Total		**1768.08**						
	Road work for pothole filling and road cutting								
	Venkategowda layout								
	1st A cross		1.00	40.00	3.00	0.20	24.00		
	1st B cross		1.00	35.00	2.00	0.20	14.00		
	1st C cross		1.00	30.00	2.00	0.20	12.00		
	1st D cross		1.00	30.00	2.00	0.20	12.00		
	2nd main 5th cross		1.00	50.00	1.50	0.20	15.00		
	2nd main 4th cross		1.00	50.00	2.00	0.20	20.00		
	Gopalappa Layout								
	12th A cross		1.00	45.00	3.00	0.20	27.00		
	1st coss		1.00	50.00	2.00	0.20	20.00		
	2nd cross		1.00	50.00	2.00	0.20	20.00		
	Chinnappa Layout								
	13th A cross		1.00	30.00	2.00	0.15	9.00		

	13th cross		1.00	35.00	2.50	0.15	13.13		
	cross roads		1	55.00	2.50	0.20	27.50		
	Pampa Extension								
	5th main		1	80.00	2.00	0.20	32.00		
	4th main		1	75.00	2.00	0.20	30.00		
	9th cross		1	80.00	2.00	0.20	32.00		
	8th cross		1	75.00	2.00	0.20	30.00		
							337.63	1768.08	596949.00
7	KSRRB-500-2: Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and or/ compressed air to receive bituminous treatment including cost of all materails, labour, HOM Machineries complete as per specifications.(Page No.161, Item No.21.2)								
	Basic Rate:	Sqm	3.00						
	Area Weightage @ 6%		0.18						
	Total		3.18						
	Asphalt roads								
	Venkategowda layout								
	1st A cross		1.00	51.00	4.00		204.00		
	1st B cross		1.00	55.00	4.00		220.00		
	1st C cross		1.00	50.00	4.00		200.00		
	1st D cross		1.00	45.00	4.00		180.00		
	2nd main 5th cross		1.00	70.00	4.00		280.00		
	2nd main 4th cross		1.00	70.00	4.00		280.00		
	Gopalappa Layout								
	12th A cross		1.00	70.00	4.00		280.00		
	1st coss		1.00	75.00	4.00		300.00		
	2nd cross		1.00	75.00	4.00		300.00		
	Chinnappa Layout								
	13th A cross		1.00	65.00	5.00		325.00		
	13th cross		1.00	65.00	4.50		292.50		
	cross roads		1.00	200.00	5.00		1000.00		
	Pampa Extension								
	5th main		1.00	235.00	4.50		1057.50		
	4th main		1.00	235.00	4.50		1057.50		
	9th cross		1.00	90.00	4.50		405.00		
	8th cross		1.00	120.00	4.50		540.00		
							6921.50	3.18	22011.00
8	KSRRB 500-07: Providing and applying tack coat with80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials , labour HOM Machineries complete as per specifications.. (Pg No. 160. Item No. 21.7)								
	Basic Rate:	Sqm	11.00						
	Area Weightage @ 6%		0.66						
	Total		11.66						
	Venkategowda layout								

	1st A cross		1.00	51.00	4.00		204.00		
	1st B cross		1.00	55.00	4.00		220.00		
	1st C cross		1.00	50.00	4.00		200.00		
	1st D cross		1.00	45.00	4.00		180.00		
	2nd main 5th cross		1.00	70.00	4.00		280.00		
	2nd main 4th cross		1.00	70.00	4.00		280.00		
	Gopalappa Layout								
	12th A cross		1.00	70.00	4.00		280.00		
	1st coss		1.00	75.00	4.00		300.00		
	2nd cross		1.00	75.00	4.00		300.00		
	Chinnappa Layout								
	13th A cross		1.00	65.00	5.00		325.00		
	13th cross		1.00	65.00	4.50		292.50		
	cross roads		1	200.00	5.00		1000.00		
	Pampa Extension								
	5th main		1	235.00	4.50		1057.50		
	4th main		1	235.00	4.50		1057.50		
	9th cross		1	90.00	4.50		405.00		
	8th cross		1	120.00	4.50		540.00		
							6921.50	11.66	80705.00
9	Providing and laying bituminous concrete40MM thick with hotmix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filleeer, transporting of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with paver finisher to the required gradde, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to acheive the desired compaction as per MORTH specifications clause No.509 complete in all respects complete as per specifications. using 40/60 TPH capacity H.M.P with mechanical paver Gr-11(30mm to 45mm) with 5.4% of modified binder consisting of 4.97% VG-10 bitumen (80/100) grade and 0.43% of plastomeric thermoplastics(Waste plastic)(Page No.172, It No.21.78.6)								
	Basic Rate:	Sqm	**6746.00**						
	Area Weightage @ 6%		404.76						
	Total		**7150.76**						
	Venkategowda layout								
	1st A cross		1.00	51.00	4.00	0.04	8.16		
	1st B cross		1.00	55.00	4.00	0.04	8.80		
	1st C cross		1.00	50.00	4.00	0.04	8.00		
	1st D cross		1.00	45.00	4.00	0.04	7.20		
	2nd main 5th cross		1.00	70.00	4.00	0.04	11.20		
	2nd main 4th cross		1.00	70.00	4.00	0.04	11.20		
	Gopalappa Layout						0.00		
	12th A cross		1.00	70.00	4.00	0.04	11.20		

	1st coss		1.00	75.00	4.00	0.04	12.00		
	2nd cross		1.00	75.00	4.00	0.04	12.00		
	Chinnappa Layout						0.00		
	13th A cross		1.00	65.00	5.00	0.04	13.00		
	13th cross		1.00	65.00	4.50	0.04	11.70		
	cross roads		1	200.00	5.00	0.04	40.00		
	Pampa Extension						0.00		
	5th main		1	235.00	4.50	0.04	42.30		
	4th main		1	235.00	4.50	0.04	42.30		
	9th cross		1	90.00	4.50	0.04	16.20		
	8th cross		1	120.00	4.50	0.04	21.60		
							276.86	7150.76	1979760.00
10	KSRRB M80013: Providing and laying of hot applied thermoplastic compund 2.5mm thick including reflectorising glass beads at 250 gms per sqm area thickness of 2.5mm is exclusive of surface applied galss beads as per thickness of 2.5mm is exclusive of surface, applied glass beadsa s perIRC35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH specfications. No.803.(Page No.185. It No.24.15)								
	Basic Rate:	Sqm	512.00						
	Area Weightage @ 6%		30.72						
	Total		542.72						
	Venkategowda layout								
	1st A cross		2	51.00	0.10		10.20		
	1st B cross		2	55.00	0.10		11.00		
	1st C cross		2	50.00	0.10		10.00		
	1st D cross		2	45.00	0.10		9.00		
	2nd main 5th cross		2	70.00	0.10		14.00		
	2nd main 4th cross		2	70.00	0.10		14.00		
	Gopalappa Layout								
	12th A cross		2	70.00	0.10		14.00		
	1st coss		2	75.00	0.10		15.00		
	2nd cross		2	75.00	0.10		15.00		
	Chinnappa Layout								
	13th A cross		2	65.00	0.10		13.00		
	13th cross		2	65.00	0.10		13.00		
	cross roads		2	200.00	0.10		40.00		
	Pampa Extension								
	5th main		2	235.00	0.10		47.00		
	4th main		2	235.00	0.10		47.00		
	9th cross		2	90.00	0.10		18.00		
	8th cross		2	120.00	0.10		24.00		
							314.20	542.72	170523.00
11	KSRRB M100-1 Loading and unloading of stone boulder/stone aggregates/ sand/ kanker/ moorum. KSRRB M100-1:Placing tipper at loading point loading with front end loading, dumping turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1 (Page 118, item No. 17.1)								

	Basic Rate	cum	**68.00**				1117.16	106.00	118419.00
	Rs. 2.50 Tonne Km.								
	Average Weight of earth 1.28 Tonne/Km.								
	For 10 Km								
	Rs.2.50X1.28TonneX10Km		**32.00**						
	Total		**100.00**						
	Add Area Weightage6%		**6.00**						
			106.00						
12						**Sub Total**			4502589.00
13						**Tender premium 10%**			450258.90
14				**Add 1% Third party inspection charges**					45025.89
16				**Miscelleneous charges**					2126.21
17						**Total**			5000000.00

1)This is certified that the work spot comes under BBMP limits only.

2) The work spot is inspected by me

3) The items Provided in the Estimate are quite Essential

4)The rates are as per CSR of 2016-17 year of PWD Bangalore Circle.

Asst.Engineer
Ward no.7

Asst.Exe.Engineer
Kodigehalli Sub-division
B.B.M.P.

Executive Engineer
Byatrayanapura Division
B.B.M.P.
19/12

ADMINISTRATIVE APPROVAL

Accorded For Rs. fifty lakhs only

Head of A/c. P-3111/17-18

Div. Ref. No. 109/17-18 Date. 19/12/17.

AE 19/12

EE(BTP) 19/12

Technical Sanction
Accorded For Rs Fifty lac
Head of A/C. P-3111
CER NO :TS/4427/17-18 Dt:27

TA

CE (YNK)

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Bhuvaneshwari Park
3rd Main Road
Pampa Ext Rd
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es Studios
1st Main Rd
ಹಿಂದು ದೇವಾಲಯ
Kempapura
Ayyappa Temple
1st B Main Rd
h Cross Rd
Rd
9th Cross Rd
Pool View Residence
9th Cross Rd
ಮಸೀದಿ
Al Quba Masjid
Temple Rd
2nd Cross Rd
1st Cross Rd
4th Main Rd
Mar Gregorios
Orthodox Church
Main Rd
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ವೆಂಕಟೇಶ್ವರ...
Shri Kalyana Lakshmi
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1st Main Rd
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Vinayaka Temple
1st Cross Road
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Green Trends
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State Bank of India
12th Main Rd
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Kempapura
Mahalakshmi Temple
13th Main Rd
Karnataka Bank
11th Main Rd
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13th Main Rd
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Vivekananda
School of Yoga
ಆಸ್ಪತ್ರೆ
Saaol Heart Center
Solar Corona Energy
EPC, Design Consultants
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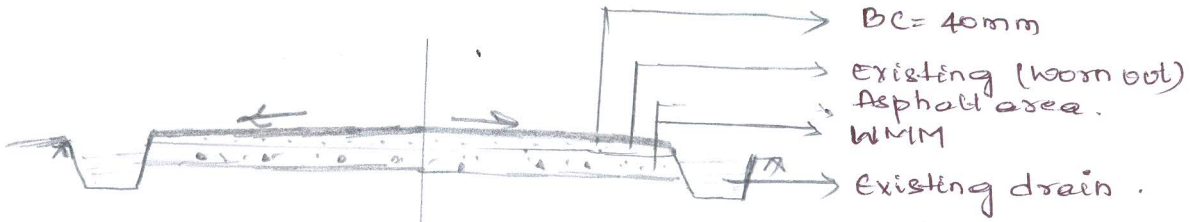
AE(W)

Google

N.D
AE(W7)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

Name of work:- Improvements to roads and drains of gopalappa layout and chennappa layout in ward no.07.



CROSS-SECTION

AE(W).N.D
AE(W)

Assistant Executive Engineer
Kodigehalli Ward Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

BYATARAYANAPURA DIVISION

KODIGEHALLI SUB DIVISION

WARD 7: BYATARAYANAPURA

Name of work:Improvements to roads and drains of Hotteppa Layout, Khasinagara and surrounding areas in ward No.07, Byatarayanapura .

P-CODE:-

Job sheet:-

Estimate Cost:- 50.00 lakhs

Name of Work:- Improvements to roads and drains of Hotteppa Layout, Khasinagara and surrounding areas in ward No.07, Byatarayanapura

Estimate Cost:- 50.00 Lakhs

S.N	DESCRIPTION OF WORK	Unit	N	L	B	D	QTY	RATE	AMOUNT
1	2	3	4	5	6	7	8	9	10
1	Removing and refixing stone slabs of drains and pointing in CM (1:3).(Pg No.25, I.No.5.33)								
	Basic Rate:	Sqm	**76.00**						
	Area Weightage @ 6%		4.56						
	Total		**80.56**						
	Prakruthi chandana apt road		2	55.00		1.35	148.50		
			1	75.00		1.35	101.25		
	Road from burial ground		1	25.00		1.35	33.75		
	Hotteppa Layout								
	1st main road		2	120.00		1.35	324.00		
	2nd main road		2	120.00		1.35	324.00		
	3rd main road		2	60.00		1.35	162.00		
	5th cross		2	115.00		1.35	310.50		
	Kallappa Layout								
	Main road		2	150.00		1.35	405.00		
	4th cross		2	235.00		1.35	634.50		
	3rd cross		2	145.00		1.35	391.50		
	2nd cross		2	125.00		1.35	337.50		
	1st cross		2	65.00		1.35	175.50		
	Govt school road		1	130.00		1.35	175.50		
	CC Road		2	125.00		1.50	375.00		
							3898.50		
			Consider 30% missing qty				**1169.55**		
							2728.95	80.56	219845.00
2	KSRRB 300-1. Earthwork excavation by manual means in rodinary soil involving an average horizontal throw upto 2 m and an average lift upto 1.5m, excavated surafce levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking clods complete as per specifications.. Pg No.142.Item No.19.1)								
	Basic Rate:	cum	**82.00**						
	Area Weightage @ 6%		4.92						
	Total		**86.92**						
	culvert		2	5.00	1.80	1.00	18.00		
	ASPHALT ROADS								
	Prakruthi chandana apt road		1	30	2.0	0.20	12.00		
			1	30	3.0	0.20	18.00		
			1	30	2.50	0.20	15.00		
	Road from burial ground		1	30	2.00	0.20	12.00		
	Hotteppa Layout								
	1st main road		1	45	2	0.20	18.00		

	2nd main road		1	55	2	0.20	22.00		
	3rd main road		1	45	2	0.20	18.00		
	5th cross		1	60	2	0.20	24.00		
	CC Road		1	150	2	0.20	60.00		
	Kallappa Layout								
	Main road		1	60	2	0.20	24.00		
	4th cross		1	55	2	0.20	22.00		
	3rd cross		1	60	2.5	0.20	30.00		
	2nd cross		1	65	3	0.20	39.00		
	1st cross		1	35	2	0.20	14.00		
	Govt school road		1	80	1.5	0.20	24.00		
							370.00	86.92	32161.00
3	Providing granite slabs of selected quality roughly dressed and fixed in cementer mortar (1:6) including fixing curing etc., complete. Pg No.25, Item No.5.31.1 (7.5 cms thick)								
	Basic rate	Sqm	628.00						
	Area Weightage @ 6%		37.68						
	Total		665.68						
							1169.55		
					Total:-		**1169.55**	665.68	778547.00
4	KSRB 4-1.3: Providing and laying in position plain cement concrete of nominal mix 1:4:8 using 40mm and down size graded granite metal machine mixed, conrete laid in layers not exceeding 15 cms. Thick well compacted in foundation and plinth, including cost of all materials labour, HOM of machinery, curing complete as per specification . **(Pg.No.12, It.4.3)**								
	Basic Rate:	cum	4867.00						
	Area Weightage @ 6%		292.02						
	Total		5159.02						
	culvert		2	5	1.8	0.15	2.70		
	Hotteppa layout- CC road		1	150	2	0.15	45.00		
							47.70	5159.02	246086.00

	Cement concrete pavement. Construction of un-reinfirced plain cement concrete pavement, thickness as per deisgn, over a prepraed sub base with OPC cement or any other type as per clause 1051..2.2 with 25mm and down size graded granite metal coarse aggregates and fine aggregates ,with superplastiser @ 3lts confirming to IS9103-1999 REAFFIRMED-2008, Mixed in a concrete mixer of not less than 0.6 cum capacity and approximate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates inlcuding levelling the form work as per drawing) and spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continous operation including, provision of contraction, expansion, construction operation including longitudinal joints, including groove cutting charges joint filler, sparation menebrane, sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specfication.M20 (AT 300 Kg per cum coarse aggregats @ 0.69cum and fine aggregate @0.43cum) (Pg No.177, It No.22.6.2)								
	Basic Rate:	cum	5197.00						
	Area Weightage @ 6%		311.82						
	Total		5508.82						
	Hotteppa layout- CC road		1	150	4	0.10	60.00		
							60.00	5508.82	330530.00
4	Vaccum De-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cst of generator, HOM of machinery screed vibaratory, power floater, blade and disc etc., with all leads and lift. (P177, It No. 22.7)								
	Basic Rate:	sqm	90.00						
	Area Weightage @ 6%		5.40						
	Total		95.40						
	Hotteppa layout- CC road		1	150	4		600.00		
							600.00	95.40	57240.00
9	KSRB4-1.6: Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240 kgs, with 20 mm and down size graded granite matel coarse aggregates @ 0.69 cum and fine aggragtes @ 0.459cum, machine mixed concrete laid in layers not eceeding 15 cms, thick well compacted, in foundation, plinth and cills including cost of all materials, labour HOM machinery curing complate as per specifications. (Page No. 12. Item No. 4.6)								
	Basic rate	cum	5441.00						
	Area Weightage @ 6%		326.46						
	Total		5767.46						
	Culvert vent portion		2.00	5.00	0.60	0.10	0.60		
	Coping	2x2	4.00	5.00	0.45	0.10	0.90		
					Total:-		**1.50**	5767.46	8652.00

10	KSRB 5.3-1:Providing and constructing granite /trap/basalt size stone masonry in foundation with cement mortar 1:6, stone hammered dressed in courses not less than 20cms hign, bond stones at two m apart in each course including cost of materials, labour, curing etc., complete as per specifications.(P-235. Item No. 5.3)								
	Basic rate	cum	4187.00						
	Add A.W. 6%		251.22						
	Total		4438.22						
	Culvert Side wall	2x2	4.00	5.00	0.45	0.90	8.10		
					Total:-		**8.10**	4438.22	35950.00
11	KSRB 5.3-1:Providing ruled pointing of course stone msonry with cement mortar 1:3 20 mm deep, after raking joints to depth of 20 mm nicley lining, including cost of materials, labour, curing etc., complete as per specifications and directions of the engineer-in-charge. (P-112, Item No. 15.8)								
	Basic rate	Sqm	35.00						
	Add A.W. 6%		2.10						
	Total		37.10						
	Culvert Side wall	1x2	2.00	5.00		0.90	9.00		
	L Shape BS Slab drain	1x2	2.00	5.00		0.45	4.50		
					Total:-		**13.50**	37.10	501.00
12	Providing and fixing 20 cm thick pre cast RCC covering slab using reinforced cement concrete M 20 mix with stone aggregate 20 mm and down size including centring shuttering reinforcement and bar bending machine mixed concrete laid in layers not exceeding 15 cm thick wellcompacted cost of all materials labour curing comlete as per specification (Data Rate)								
	DETA RATE	**Sqm**							
	Culvert covering		**18**	**1.8**	0.60		19.44		
							19.44	5111.00	99358.00
19	KSSRB M 400-17: Providing laying, spreading and compacting graded fine aggregate to wet mix macadam specificationns including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surfce and compating with vibratory roller to achieve the desired density complete as per specifications. MORTH specifications no. 406(P-157., It No: 20.18)								
	Basic rate	cum	**1668.00**						
	Area Weightage @ 6%		100.08						
	Total		**1768.08**						
	Only for road cut and pothole filling								
	ASPHALT ROADS								
	Prakruthi chandana apt road		1	30.00	2.00	0.20	12.00		
			1	30.00	2.80	0.20	16.80		
			1	30.00	2.50	0.20	15.00		
	Road from burial ground		1	30.00	2.00	0.20	12.00		
	Hotteppa Layout								
	1st main road		1	45.00	2.00	0.20	18.00		
	2nd main road		1	55.00	2.00	0.20	22.00		

	3rd main road		1	45.00	2.00	0.20	18.00		
	5th cross		1	60.00	1.50	0.20	18.00		
	Kallappa Layout								
	Main road		1	60.00	2.00	0.20	24.00		
	4th cross		1	55.00	2.00	0.20	22.00		
	3rd cross		1	60.00	2.50	0.20	30.00		
	2nd cross		1	65.00	3.00	0.20	39.00		
	1st cross		1	35.00	2.00	0.20	14.00		
	Govt school road		1	80.00	1.50	0.20	24.00		
					Total:-		**284.80**	1768.08	503550.00
19	KSRRB-500-2: Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and or/ compressed air to receive bituminous treatment including cost of all materails, labour, HOM Machineries complete as per specifications.(Page No.161, Item No.21.2)								
	Basic rate	Sqm	**3.00**						
	Area Weightage @ 6%		0.18						
	Total		**3.18**						
	ASPHALT ROADS								
	Prakruthi chandana apt road		1.00	55.00	5.00		275.00		
			1.00	65.00	4.00		260.00		
			1.00	40.00	3.50		140.00		
	Road from burial ground		1.00	20.00	4.00		80.00		
	Hotteppa Layout								
	1st main road		1.00	120.00	4.00		480.00		
	2nd main road		1.00	120.00	4.00		480.00		
	3rd main road		1.00	60.00	4.00		240.00		
	5th cross		1.00	115.00	4.00		460.00		
	Kallappa Layout								
	Main road		1.00	150.00	5.00		750.00		
	4th cross		1.00	235.00	5.00		1175.00		
	3rd cross		1.00	145.00	5.00		725.00		
	2nd cross		1.00	120.00	5.00		600.00		
	1st cross		1.00	62.00	5.00		310.00		
	Govt school road		1.00	130.00	5.00		650.00		
							6625.00	3.18	21068.00
20	KSRRB 500-07: Providing and applying tack coat with80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials , labour HOM Machineries complete as per specifications.. (Pg No. 160. Item No. 21.7)								
	Basic rate	Sqm	**11.00**						
	Area Weightage @ 6%		0.66						
	Total		**11.66**						
	ASPHALT ROAD								

	Prakruthi chandana apt road		1	55.00	5		275.00		
			1	65.00	4		260.00		
			1	40.00	4		140.00		
	Road from burial ground		1	20.00	4		80.00		
	Hotteppa Layout								
	1st main road		1	120.00	4		480.00		
	2nd main road		1	120.00	4		480.00		
	3rd main road		1	60.00	4		240.00		
	5th cross		1	115.00	4		460.00		
	Kallappa Layout								
	Main road		1	150.00	5		750.00		
	4th cross		1	235.00	5		1175.00		
	3rd cross		1	145.00	5		725.00		
	2nd cross		1	120.00	5		600.00		
	1st cross		1	62.00	5		310.00		
	Govt school road		1	130.00	5		650.00		
					Total:-		**6625.00**	11.66	77248.00
21	Providing and laying bituminous concrete40MM thick with hotmix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filleeer, transporting of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with paver finisher to the required gradde, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to acheive the desired compaction as per MORTH specifications clause No.509 complete in all respects complete as per specifications. using 40/60 TPH capacity H.M.P with mechanical paver Gr-11(30mm to 45mm) with 5.4% of modified binder consisting of 4.97% VG-10 bitumen (80/100) grade and 0.43% of plastomeric thermoplastics(Waste plastic)(Page No.172, It No.21.78.6)								
	Basic rate	cum	**6746.00**						
	Area Weightage @ 6%		404.76						
	Total		**7150.76**						
	ASPHALT ROAD								
	Prakruthi chandana apt road		1	55	5	0.04	11.00		
			1	65	4	0.04	10.40		
			1	40	4	0.04	5.60		
	Road from burial ground		1	20	4	0.04	3.20		
	Hotteppa Layout								
	1st main road		1	120	4	0.04	19.20		
	2nd main road		1	120	4	0.04	19.20		
	3rd main road		1	60	4	0.04	9.60		
	5th cross		1	115	4	0.04	18.40		
	Kallappa Layout								
	Main road		1	150	5	0.04	30.00		
	4th cross		1	235	5	0.04	47.00		
	3rd cross		1	145	5	0.04	29.00		
	2nd cross		1	120	5	0.04	24.00		

	1st cross		1	62	5	0.04	12.40		
	Govt school road		1	130	5	0.04	26.00		
					Total:-		**265.00**	7150.76	1894952.00
3	KSRRB M80013: Providing and laying of hot applied thermoplastic compund 2.5mm thick including reflectorising glass beads at 250 gms per sqm area thickness of 2.5mm is exclusive of surface applied galss beads as per thickness of 2.5mm is exclusive of surface, applied glass beadsa s perIRC35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH specfications. No.803.(Page No.185. It No.24.15)								
	Basic rate	m	**512.00**						
	Area Weightage @ 6%		30.72						
	Total		**542.72**						
	ASPHALT ROAD								
	Prakruthi chandana apt road		2	55	0.10		11.00		
			2	65	0.10		13.00		
			2	40	0.10		8.00		
	Road from burial ground		2	20	0.10		4.00		
	Hotteppa Layout								
	1st main road		2	120	0.10		24.00		
	2nd main road		2	120	0.10		24.00		
	3rd main road		2	60	0.10		12.00		
	5th cross		2	115	0.10		23.00		
	Kallappa Layout								
	Main road		2	150	0.10		30.00		
	4th cross		2	235	0.10		47.00		
	3rd cross		2	145	0.10		29.00		
	2nd cross		2	120	0.10		24.00		
	1st cross		2	62	0.10		12.40		
	Govt school road		2	130	0.10		26.00		
					Total:-		**287.40**	542.72	155978.00
24	KSRRB M100-1 Loading and unloading of stone boulder/stone aggregates/ sand/ kanker/ moorum. KSRRB M100-1:Placing tipper at loading point loading with front end loading, dumping turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1 (Page 118, item No. 17.1)								
	Basic Rate	cum	**68.00**				370.00	106.00	39220.00
	Rs. 2.50 Tonne Km.								
	Average Weight of earth 1.28 Tonne/Km.								
	For 10 Km								
	Rs.2.50X1.28TonneX10K		**32.00**						
	Total		**100.00**						
	Add Area Weightage6%		**6.00**						
			106.00						

24						Sub Total			4500886.00
25				Add 10% Tender premium charges					450088.60
26				Add 1% Third party inspection charges					45008.86
27				Miscellenous charges					4016.54
28						Total			5000000.00

1)This is certified that the work spot comes under BBMP limits only.

2) The work spot is inspected by me

3) The items Provided in the Estimate are quite Essential

4)The rates are as per CSR of 2016-17 year of PWD Bangalore Circle.

Asst.Engineer
Ward no.7

Asst.Exe.Engineer
Kodigehalli Sub-division
B.B.M.P.

Executive Engineer
Byatrayanapura Division
B.B.M.P.

ADMINISTRATIVE APPROVAL

Accorded For Rs. Fifty lakhs only

Head of A/c. P-3111

Div. Ref. No. 110 Date 19/12/17

AE EE(BTP) 19/12

Technical Sanction

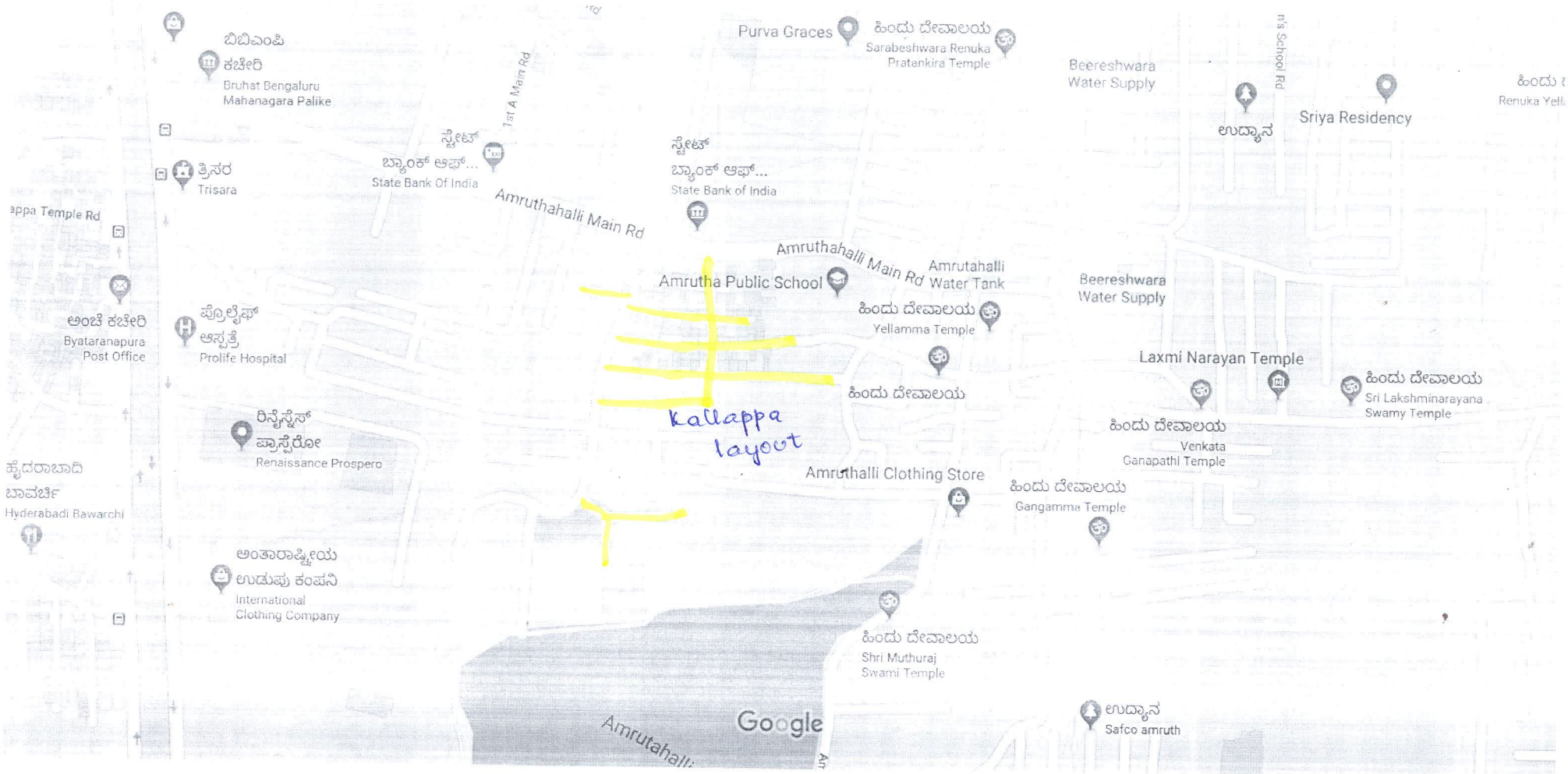
Accorded For Rs Fifty lakhs only

Head of A/C P-3111

CER NO TS/428/17-18 Dt: 29.12.17

TA CE (YNK)

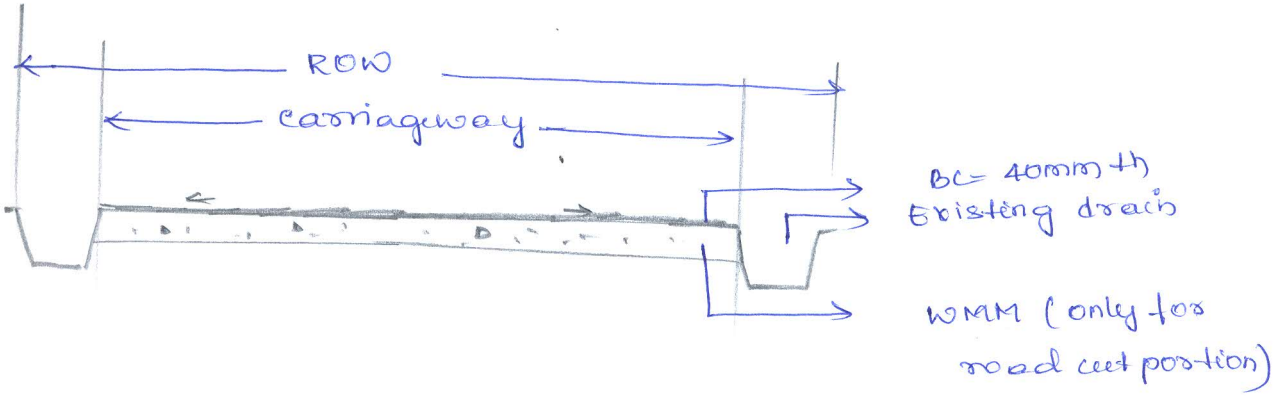
Improvements to roads and drains of Hotteppa layout, Khasinagara and surrounding areas in ward no.07.



Ashwini. N.D
AE(W-7)

12/8/2017, 5:01 PM

Name of work:- Improvements to roads and drains of Hotteppa layout, khasinagara and surrounding areas in Ward no. 07.



CROSS-SECTION

[signature] N.D
AE(07)

[signature]